

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-213-22

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Vortech Engineering, LLC  
Nissan/Infiniti Supercharger Kit

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Nissan/Infiniti Supercharger Kit, manufactured and marketed by Vortech Engineering, LLC, 1650 Pacific Avenue, Oxnard, California 93033, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for the following Nissan/Infiniti vehicle applications.

<u>Part Number</u>	<u>Model years</u>	<u>Vehicle type/model</u>	<u>Engine size (liters)</u>	<u>Crank pulley dia. (in.)</u>	<u>Supercharger Pulley dia. (in.)</u>
4NZ218-010	2003-2004	350Z w/charge cooler, all	3.5	5.73	3.33
4NZ218-020	2004	G35 w/charge cooler	3.5	5.73	3.33
4NZ218-030	2003	G35 w/charge cooler	3.5	5.73	3.33
4NZ218-040	2003-2005	FX35/Murano w/charge cooler, all	3.5	5.73	3.33
4NZ218-050	2005	350Z/G35 w/charge cooler	3.5	5.73	3.33
4NT218-010	2004-2005	Titan truck/SUV w/cooler	5.6	Stock	3.125

Changing the last number of the part number from a '0' to an '8' denotes finish.

All of the above kits with an 'E', 'S', 'T', 'R', 'SQ', 'YS', 'Ysi', 'JT' or 'SC' suffix at the end of the standard part number will specify supercharger type.

The Nissan/Infiniti Supercharger Kit includes the following main parts: Vortech centrifugal supercharger with a maximum boost of 9 pounds per square inch, intercooler, supercharger by-pass valve, air intake tubing, open element air cleaner, PCV/fuel/vapor hoses, timing control box, and an inline fuel pump. The stock mass airflow sensor and radiator thermostat are retained.

This Executive Order is valid provided that the installation instructions for the Nissan/Infiniti Supercharger Kit will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

Changes made to the design or operating conditions of the Nissan/Infiniti Supercharger Kit, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

This Executive Order shall not apply to any Nissan/Infiniti Supercharger Kit advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

Marketing of the Nissan/Infiniti Supercharger Kit using any identification other than that shown in this Executive Order or marketing of the Nissan/Infiniti Supercharger Kit for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Nissan/Infiniti Supercharger Kit may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on emission test results in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure, Supplemental Federal Test Procedure (US06/SC03), and an examination of the On-Board Diagnostic II (OBD II) system. A 2005 Infiniti G35 with a 3.5 liter engine (5NSXV03.5G7A, LEV II LEV, PC) was used for the evaluation of the Nissan/Infiniti Supercharger Kit. Results from emissions testing conducted at Quantum Technologies, Lake Forest, California, are shown below (in grams per mile with deterioration factors applied):

		CVS-75				US06/SC03	
		NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards	50k	0.075	3.4	0.05	0.015	0.14/0.20	8.0/2.7
Device		0.063	0.8	0.02	0.001	0.07/0.01	4.0/0.4

The emission test results in the modified configuration were below the applicable certification standards. Examination of the OBD II system showed the Nissan/Infiniti Supercharger Kit does not affect OBD II system operation.


The Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE NISSAN/INFINITI SUPERCHARGER KIT.

No claim of any kind, such as "Approved by the Air Resources Board", may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a ten-day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 1<sup>st</sup> day of August 2005

  
Allen Lyons, Chief  
Mobile Source Operations Division